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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/438,436	11/12/1999	JEFFREY MARK ACHTERMANN	AT9-99-655	9315
75	90 09/03/2004		EXAM	INER
JAMES J MU	RPHY		TODD, GR	EGORY G
5400 RENAISS 1201 ELM STR	ANCE TOWER		ART UNIT	PAPER NUMBER
DALLAS, TX			2157	

DATE MAILED: 09/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	0
	09/438,436	ACHTERMANN ET AL	
Office Action Summary	Examiner	Art Unit	7
	Gregory G Todd	2157	
The MAILING DATE of this communication	appears on the cover sheet w	ith the correspondence addres	ss
Period for Reply A SHORTENED STATUTORY PERIOD FOR REI	DIVIQUET TO EVDIDE 2 N	MONTH(S) FROM	
THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state of the period for reply will, by state of the period for reply will, by state of the period for reply will. See 37 CFR 1.704(b).	N. R. 1.136(a). In no event, however, may a reply within the statutory minimum of thi idod will apply and will expire SIX (6) MO stute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this commu BANDONED (35 U.S.C. § 133).	inication.
Status			
1) Responsive to communication(s) filed on 1	7 May 2004.		
	his action is non-final.		
3) Since this application is in condition for allo closed in accordance with the practice under			erits is
Disposition of Claims			
4) Claim(s) 1-33 is/are pending in the applicat	ion.		
4a) Of the above claim(s) is/are with			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-33</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction an	d/or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Exan	niner.		
10) The drawing(s) filed on is/are: a)	accepted or b)☐ objected to	by the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the con	rrection is required if the drawin	g(s) is objected to. See 37 CFR 1	1.121(d).
11) The oath or declaration is objected to by the	e Examiner. Note the attache	ed Office Action or form PTO-	152.
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority docum	nents have been received.		
2. Certified copies of the priority docum	nents have been received in	Application No	
3. Copies of the certified copies of the		n received in this National Sta	age
application from the International Bu	reau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a	list of the certified copies no	ot received.	
Attachment(s)	4) 🗍 Interview	v Summary (PTO-413)	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	Paper N	o(s)/Mail Date	
Information Disclosure Statement(s) (PTO-1449 or PTO/St Paper No(s)/Mail Date	5) Notice of 6) Other:	f Informal Patent Application (PTO-15	52)
I.S. Patent and Trademark Office		Part of Paper No /Mail Da	1- 000404

Art Unit: 2157

DETAILED ACTION

Response to Amendment

This is a fourth office action in response to applicant's amendment filed, 17 May 2004, of application filed, with the above serial number, on 12 November 1999 in which no claims have been amended. Claims 1-33 are therefore pending in the application.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-3, 5, 12-14, 16, 23-25, and 27 are rejected under 35 U.S.C. 102(e) as being anticipated by Zolnowsky (hereinafter "Zolnowsky", 6,779,182).
- 3. Zolnowsky teaches the invention as claimed including job and thread prioritized scheduled (see abstract).
- 4. As per Claims 1, 12, and 23, Zolnowsky discloses a connection scheduling method, wherein Zolnowsky discloses:

determining if a job is available for scheduling (job scheduling) (at least col. 5, lines 13-21);

Art Unit: 2157

determining, in response to said step of determining if said job is available, if a session is available, wherein said session is included in a pool of sessions (threads), said pool of sessions having a preselected one of a set of priority levels corresponding to a priority level of said job and wherein said session effects an execution of said job (runnable threads in queue of threads with dispatch priority) (at least col. 6, lines 33-65); and

launching said session to effect said execution of said job, if said session is available (thread (and processor / job) selected for execution) (at least col. 7, lines 17-28; col. 8, lines 43-60).

- 5. As per Claims 2, 13, and 24.session comprises a thread (thread) (at least col. 6, lines 33-65).
- 6. As per Claims 3, 14, and 25.

 creating a connection to a target system for execution of job (target processor being selected) (at least col. 10, lines 21-42).
- 7. As per Claims 5, 16, and 27.

launching an error handling thread in response to an error condition, the error handling thread releasing said session (scheduling errors in thread queues) (at least col. 8, lines 3-17).

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 2157

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 9. Claims 4, 6-9, 15, 17-20, 26, and 28-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zolnowsky in view of Northrup (hereinafter "Northrup", 6,671,713).
- 10. Zolnowsky teaches the invention substantially as claimed including job and thread prioritized scheduled (see abstract).
- 11. As per Claim 4, 15, and 26.

Zolnowsky does not explicitly disclose determining if connection is an existing connection, and creating the connection is performed if connection is not an existing connection. However, Northrup teaches if a connection primitives (at least col. 4, lines 22-60). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate Northrup's connection primitives into Zolnowsky's system as Northrup teaches communication occurring upon connection commencing.

12. As per Claims 6, 17, and 28.

Zolnowsky fails to explicitly disclose changing value of a job state from a first value to a second value in response to said launching of said error handling thread. Northrup teaches the use of a thread returning an error condition and "error" state (at least col. 56, lines 33-36; col. 55, lines 27-35; col. 27 line 66 - col. 28 line 15). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the use of having a value being changed when an

Art Unit: 2157

error occurs as Northrup discloses into Zolnowsky's system as this would reduce scheduling errors in Zolnowsky's system and define conditions of the thread.

13. As per Claims 7, 18, and 29.

the first value signaling that the job is available for scheduling (non-errors not being caught in verification step) (at least Zolnowsky col. 8, lines 11-17).

14. As per Claims 8, 19, and 30.

retrying the steps of determining if a job is available for scheduling, determining if a session is available, and launching said session in response to an error condition (at least Zolnowsky col. 8, lines 11-17; error resulting in selecting correct queue).

15. As per Claims 9, 20, and 31.

Zolnowsky fails to explicitly disclose the step of retrying to be repeated until a predetermined time interval has elapsed. However, the use and advantages for retrying tasks based on elapsed time is well known to one skilled in the art at the time the invention was made as evidenced by the teachings of Northrup (at least Northrup col. 10 line 49 - col. 11 line 18). Northrup discloses relaunching after a delay period after it attempts to relaunch immediately. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the use of Northrup's time-interval thread launching into Zolnowsky's system because this would further allow tasks that could not be completed and relaunched the second time to attempt again at a later time when there might be less network congestion, for example.

Art Unit: 2157

16. Claims 10-11, 21-22, and 32-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zolnowsky in view of Northrup and further in view of Rangarajan et al (hereinafter "Hlasnik", 6,260,077).

17. As per Claims 10, 21, and 32.

Zolnowsky and Northrup fail to explicitly disclose registering a callback method in response to an expiry of a predetermined time interval. However, the use and advantages for responding to a time expiration is well known to one skilled in the art at the time the invention was made as evidenced by the teachings of Rangarajan (at least Rangarajan Abstract; col. 17, lines 13-39). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the use of Rangarajan's responding to an expiry of an elapsed time into Zolnowsky and Northrup's system because this would invoke an event to cause a thread to occur upon, for example an error, and allow the client application to perform its function and then return control to Zolnowsky and Northrup's host computer (target system) upon the predetermined time interval.

18. As per Claims 11, 22, and 33.

Zolnowsky and Northrup fail to explicitly disclose the steps of determining if a job is available for scheduling, determining if a session is available, and launching said session being performed in response to an invoking of a callback method by a target system, the target system for execution of said job. However, the use and advantages for a target system responding to an elapsed time expiration is well known to one skilled in the art at the time the invention was made as evidenced by the teachings of

Art Unit: 2157

Rangarajan (at least Rangarajan Abstract; col. 17, lines 13-39). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the use of Rangarajan's responding to an expiry of an elapsed time into Zolnowsky and Northrup's system because this would invoke an event to cause a thread to occur upon, for example an error, and allow the client application to perform its function and then return control to Zolnowsky and Northrup's host computer (target system) upon the predetermined time interval, and thus have the requested task be entered into the thread and be completed.

Response to Arguments

- 19. Applicant's arguments, see pp. 5-26, filed 17 May 2004, with respect to the rejection(s)of claim(s) 1-33 under Williams have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Zolnowsky.
- 20. In view of the Appeal Brief filed on 17 May 2004, PROSECUTION IS HEREBY REOPENED. A new ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
 - (2) request reinstatement of the appeal.

Art Unit: 2157

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

Conclusion

- 21. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Previously cited Silva et al ('760), Hanif et al, Dixon et al, Herbert et al, Brackett et al, Marshall, Teng, Batra, Behm et al, Davis et al, Murray, Trugman, Morris et al, Sundararajan, Beaulieu et al, Farrell et al, Bigus, Silva et al ('537), Zolnowsky and Coffman et al and Ross et al are cited for disclosing pertinent information related to the claimed invention.
- 22. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory G Todd whose telephone number is (703)305-5343. The examiner can normally be reached on Monday Friday 9:00am-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (703)308-7562. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2157

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gregory Todd

Patent Examiner

Technology Center 2100

SALEH NAJJAR DRIMARY EXAMINER